

**PX 463**

## Message

From: [REDACTED]@ripple.com]  
 on behalf of [REDACTED]@ripple.com> [REDACTED]@ripple.com]  
 Sent: 4/13/2016 7:43:53 PM  
 To: Brad Garlinghouse [Brad Garlinghouse <[REDACTED]@ripple.com>]; Patrick Griffin [Patrick Griffin <[REDACTED]@ripple.com>]  
 CC: [REDACTED]@ripple.com>]; Chris Larsen [Chris Larsen <[REDACTED]@ripple.com>]  
 Subject: Summary of market selling and next steps  
 Attachments: Bot Impact Analysis.xlsx

Hi all, please review the content summarizing recent large sellers and next steps that [REDACTED] and I discussed. We can schedule a call or meeting tomorrow to discuss further.

- **Seller Summary:** XRP price has experienced weakness in the past couple of weeks, but not out of line with weakness in ETH. Triggers for major sellers since last Thursday are likely the initial NYT miswording and Earthport article.
  1. [REDACTED]
    - Large unsophisticated seller sold the remaining XRP (clearing BTC/XRP order books, so damaging) out of the wallets below (originally funded by XRP II via two transactions totaling [REDACTED] XRP in 2014 and from buys from [REDACTED] as well). More than [REDACTED] XRP was sold out of these accounts in the last few days:
      - [REDACTED]
      - [REDACTED]
      - [REDACTED]
      - [REDACTED]
      - [REDACTED]
      - All these accounts were included in the monitoring list that I sent to compliance for implementation (after our [REDACTED] OTC strategy discussion), and they are working on full account mapping.
      - [REDACTED] is part/majority owner of [REDACTED] and full owner of [REDACTED] which we cut off sales to after issues arose with [REDACTED] was formerly [REDACTED] partner in [REDACTED] but has split off to [REDACTED]
      - [REDACTED] for the original sales to [REDACTED] only for [REDACTED]
      - There is approximately [REDACTED] XRP (from our OTC strategy discussion) being held across other accounts affiliated with [REDACTED]
      - [REDACTED] sales have been absorbed surprisingly well, and price has held in relatively.
        - [REDACTED] has been a big buyer of the [REDACTED] sales, so we are looking further into their previous activity and potential relationships.
  2. [REDACTED]
    - Large sophisticated net seller for the past few weeks, but purely within the constraints of their bot (responding to bids in the market). They are not taking directional views.
    - I connected with [REDACTED] to reassure them, and Chris connected with [REDACTED]
    - [REDACTED] is permitted to use XRP for non-market making purposes on a [REDACTED] vesting basis.
  3. Jed
    - Small unsophisticated seller for the past few days, but he is within limits.
    - Code has been pushed for his bot, so independent selling should stop in next few days.



- **Response and Next Steps**

1. Reach out to [REDACTED] if possible to understand their motivations for selling, reassure them, and push for normal trading.
  - Given the full liquidation at [REDACTED] accounts, I think we should be prepared for the same with [REDACTED] and its 2nd degree accounts worst case.
  - Who: Chris, Patrick. [REDACTED] can join if helpful.
2. Work with compliance to map all accounts for [REDACTED] and Jed.
  - Who: [REDACTED]
3. Research the relationship of [REDACTED] to [REDACTED] in case of collusion (nothing alarming at the moment).
  - Who: [REDACTED]
4. Assess when/how to reenter market (week of 4/18 ideally).
  - Once we have alignment with [REDACTED] and assuming market stabilizes, attempt to ramp back to Budget Targets (or Budget Dollar Levels)
  - Don't need to buy in market if we can more effectively address by direct conversations with large sellers.
  - Who: [REDACTED] with approval of Chris, Brad.
5. Review attached document relating to market impact of our sales, and use to inform future GSR bot strategy in coming weeks/months.
  - Assess as part of Forecast Update (opportune time to reassess bot and direct sale strategy)—with added cash, we may want to propose a more cautious approach in the 2016 forecast.
  - Who: Brad, [REDACTED] Patrick, [REDACTED]

- **GSR Bot Impact Summary (attached)**

- To inform our potential bot selling/buying strategy, I attached an analysis that shows the XRP price moves every day starting from 1/1/15 along with what % we net sold or bought that day. The correlations are as follows:
  - Price move to bot directionality/size: 0.11
  - Price move to bot buy size: 0.14
  - Price move to bot sell size: 0.023
- Conclusion: At a daily market level, our bot activity does not have a major correlation to price moves. There is a slight positive correlation (0.11) that can become more marked on days with thin liquidity and negative market sentiment (like we just had). The correlation is stronger for buys (price increases when we buy) and weaker for sales (price decreases when we sell). The buy sample set was very small, so results are not statistically significant. Overall, I would argue that the current XRP price would be higher now if we were not introducing new XRP supply daily; I also think our buys on weak days are more impactful on a daily level than sales on normal days.



startTime	Network volume in XRP	XRP sold	count	open
2015-01-01T00:00:00.0	12894412.18	444,904	166	0.02392076
2015-01-02T00:00:00.0	18409520.42	1,197,123	211	0.02424498
2015-01-03T00:00:00.0	83340583.34	2,370,243	1470	0.02401745
2015-01-04T00:00:00.0	177038824.3	150	5656	0.02106872
2015-01-05T00:00:00.0	132520542.3	4,251,995	3183	0.020401
2015-01-06T00:00:00.0	75384490.55	7,649,291	2995	0.02011454
2015-01-07T00:00:00.0	33180240.17	2,756,354	416	0.02061856
2015-01-08T00:00:00.0	34842480.26	2,295,759	1402	0.0207188
2015-01-09T00:00:00.0	55948965.61	5,062,569	1201	0.0208
2015-01-10T00:00:00.0	60770195.12	3,531,304	2044	0.02049215
2015-01-11T00:00:00.0	27137703.4	875,918	1006	0.01932496
2015-01-12T00:00:00.0	27361378.67	-33,604	1759	0.018599
2015-01-13T00:00:00.0	183415260.8	2,302,092	4579	0.01826413
2015-01-14T00:00:00.0	117185395.5	113	2886	0.01394842
2015-01-15T00:00:00.0	125246652.3	4,646,807	3249	0.014045
2015-01-16T00:00:00.0	93513313.01	6,619,605	2227	0.016557
2015-01-17T00:00:00.0	47729471.55	2,512,752	1175	0.01596531
2015-01-18T00:00:00.0	68944922.48	2,789,508	1725	0.01492988
2015-01-19T00:00:00.0	58534422.22	2,395,192	1540	0.0154673
2015-01-20T00:00:00.0	49819916.98	2,480,578	1385	0.01618
2015-01-21T00:00:00.0	57630672.24	888,103	1217	0.0164
2015-01-22T00:00:00.0	53894619.1	1,023,034	1128	0.016672
2015-01-23T00:00:00.0	54230359.02	2,128,798	1267	0.01721281
2015-01-24T00:00:00.0	47367882.04	1,035,777	521	0.0166289
2015-01-25T00:00:00.0	45769371.43	-483,459	896	0.01643092
2015-01-26T00:00:00.0	165999182.9	2,162,756	2515	0.01659104
2015-01-27T00:00:00.0	69440158.82	1,734,174	1284	0.01577287
2015-01-28T00:00:00.0	76089401.75	1,827,252	1333	0.01530935
2015-01-29T00:00:00.0	63828423.69	1,711,282	1270	0.0145
2015-01-30T00:00:00.0	50636895.7	1,669,335	1457	0.01410797
2015-01-31T00:00:00.0	31524610.65	952,135	957	0.01432176
2015-02-01T00:00:00.0	50244991.17	1,757,550	1264	0.0140056
2015-02-02T00:00:00.0	84219206.57	3,362,494	1577	0.01390088
2015-02-03T00:00:00.0	80776195.3	2,462,363	1816	0.01339373
2015-02-04T00:00:00.0	34529499.08	587,419	411	0.0132495
2015-02-05T00:00:00.0	67791938.85	2,170,267	1475	0.01365
2015-02-06T00:00:00.0	95787753.18	1,776,888	1885	0.01577362
2015-02-07T00:00:00.0	23880719.87	915,962	453	0.01430292
2015-02-08T00:00:00.0	25436955.35	611,338	491	0.01471706
2015-02-09T00:00:00.0	36807397.93	406,312	527	0.01430369
2015-02-10T00:00:00.0	55707398.39	966,519	522	0.01381359
2015-02-11T00:00:00.0	24835099.17	585,700	250	0.01375331



2015-02-12T00:00:00.0	30812020.23	254,394	387	0.01384357
2015-02-13T00:00:00.0	55969694.47	401,338	1515	0.01397564
2015-02-14T00:00:00.0	44855857.09	465,795	1573	0.01453864
2015-02-15T00:00:00.0	70484864.11	1,455,191	1523	0.01446946
2015-02-16T00:00:00.0	25380487.99	643,318	347	0.01369863
2015-02-17T00:00:00.0	27140936.41	271	229	0.01383198
2015-02-18T00:00:00.0	26228592.64	172	331	0.01395945
2015-02-19T00:00:00.0	20042842.64	291,418	163	0.01376261
2015-02-20T00:00:00.0	67758155.85	2,858,129	2525	0.01368532
2015-02-21T00:00:00.0	21359620.34	1,417,080	938	0.01314492
2015-02-22T00:00:00.0	37111990.94	850,641	386	0.01334058
2015-02-23T00:00:00.0	25320211.8	1,433,028	664	0.013017
2015-02-24T00:00:00.0	37171970.06	1,779,308	446	0.0132089
2015-02-25T00:00:00.0	27254010.9	1,353,440	227	0.01330266
2015-02-26T00:00:00.0	42572395.94	3,123,237	507	0.01321061
2015-02-27T00:00:00.0	54831197.34	2,714,841	461	0.01314267
2015-02-28T00:00:00.0	32733846.66	782,709	323	0.01311244
2015-03-01T00:00:00.0	108028962.2	2,230,295	5555	0.01277793
2015-03-02T00:00:00.0	97336877.79	1,949,188	2477	0.01131
2015-03-03T00:00:00.0	272211364.9	2,532,399	2594	0.01178298
2015-03-04T00:00:00.0	224520059.5	1,668,890	1656	0.00863076
2015-03-05T00:00:00.0	219927338.3	1,573,199	1787	0.01060454
2015-03-06T00:00:00.0	82652525.68	4,610,351	663	0.0114
2015-03-07T00:00:00.0	101270485	6,785,586	814	0.01058424
2015-03-08T00:00:00.0	68698749.26	3,619,009	827	0.00954315
2015-03-09T00:00:00.0	199342743.9	5,671,880	1440	0.00971721
2015-03-10T00:00:00.0	141418478.4	6,803,460	744	0.0103
2015-03-11T00:00:00.0	65964027.69	2,349,746	652	0.01
2015-03-12T00:00:00.0	53800729.71	2,059,913	243	0.01013697
2015-03-13T00:00:00.0	58357399.69	700,088	452	0.01033283
2015-03-14T00:00:00.0	64052042.79	3,391,316	585	0.01095481
2015-03-15T00:00:00.0	29890223.85	1,175,099	444	0.01111111
2015-03-16T00:00:00.0	66971980.46	3,575,756	628	0.0107712
2015-03-17T00:00:00.0	63656439.06	2,606,784	1095	0.01061187
2015-03-18T00:00:00.0	131992521.1	11,063,803	1329	0.01074332
2015-03-19T00:00:00.0	256845764.8	9,353,072	2220	0.01026838
2015-03-20T00:00:00.0	40366515.78	2,279,188	351	0.01050574
2015-03-21T00:00:00.0	38864059.72	1,597,818	575	0.01028111
2015-03-22T00:00:00.0	28454161.32	1,054,783	480	0.01
2015-03-23T00:00:00.0	58517296.62	3,493,456	989	0.00997364
2015-03-24T00:00:00.0	60410708.28	-354,585	499	0.00976604
2015-03-25T00:00:00.0	128719250.5	1,035,034	1437	0.00930093
2015-03-26T00:00:00.0	67654058.59	895,259	337	0.00869565



2015-03-27T00:00:00.0	51459502.15	562,682	344	0.00876
2015-03-28T00:00:00.0	20390457.66	810,457	375	0.00861204
2015-03-29T00:00:00.0	46371744.9	2,965,663	587	0.00859871
2015-03-30T00:00:00.0	120301939.3	9,490,834	2910	0.00838248
2015-03-31T00:00:00.0	182156294.5	7,678,456	2459	0.00808027
2015-04-01T00:00:00.0	91524152.12	4,284,500	1643	0.00740299
2015-04-02T00:00:00.0	47205125.42	581,180	347	0.00760113
2015-04-03T00:00:00.0	115099095.5	5,955,161	1616	0.0078999
2015-04-04T00:00:00.0	30233296.99	1,202,833	462	0.00891951
2015-04-05T00:00:00.0	25295019.58	643,453	531	0.00858378
2015-04-06T00:00:00.0	62762308.96	1,947,226	878	0.00856636
2015-04-07T00:00:00.0	134931862.9	2,400,567	2495	0.0087004
2015-04-08T00:00:00.0	113544038.9	2,214,280	1332	0.00919013
2015-04-09T00:00:00.0	89696557.04	1,906,271	1147	0.0090889
2015-04-10T00:00:00.0	64665063.65	1,354,432	958	0.00857958
2015-04-11T00:00:00.0	31353451.19	591,848	529	0.00846067
2015-04-12T00:00:00.0	23433905.53	655,274	353	0.00819467
2015-04-13T00:00:00.0	47728421.73	1,034,139	664	0.00831106
2015-04-14T00:00:00.0	82924504.04	1,905,165	1669	0.00795389
2015-04-15T00:00:00.0	47476519.44	1,715,091	730	0.00773021
2015-04-16T00:00:00.0	28198196.66	1,004,344	379	0.00779716
2015-04-17T00:00:00.0	35970951.32	1,115,664	576	0.00796065
2015-04-18T00:00:00.0	24812544.18	1,596,627	577	0.0078411
2015-04-19T00:00:00.0	26601002.77	1,003,359	1483	0.00778681
2015-04-20T00:00:00.0	73809715.09	3,965,420	849	0.00771031
2015-04-21T00:00:00.0	76813306.14	3,028,397	1465	0.00788585
2015-04-22T00:00:00.0	90393676.42	67,302	953	0.0080294
2015-04-23T00:00:00.0	54083645.72	4,672,284	577	0.00801317
2015-04-24T00:00:00.0	54285519.99	2,769,557	594	0.00791693
2015-04-25T00:00:00.0	33944581.71	2,379,633	360	0.0077559
2015-04-26T00:00:00.0	73710050.72	2,971,957	492	0.00784788
2015-04-27T00:00:00.0	138817426.7	4,238,969	1141	0.00769081
2015-04-28T00:00:00.0	97735248.47	3,661,505	925	0.00756674
2015-04-29T00:00:00.0	86083049.39	3,138,554	911	0.00765297
2015-04-30T00:00:00.0	91269919.15	3,343,206	644	0.00781398
2015-05-01T00:00:00.0	104876755.2	4,457,105	1378	0.00790129
2015-05-02T00:00:00.0	13892829.4	67,068	195	0.00781849
2015-05-03T00:00:00.0	69371177.22	2,724,557	682	0.00795909
2015-05-04T00:00:00.0	34415140.39	2,215,097	589	0.00793721
2015-05-05T00:00:00.0	91042898.67	2,050,703	1302	0.00792072
2015-05-06T00:00:00.0	75965856.54	2,620,819	842	0.00768815
2015-05-07T00:00:00.0	401553671.5	12,403,843	4389	0.0076477
2015-05-08T00:00:00.0	59764511.44	1,034,078	429	0.00704261



2015-05-09T00:00:00.0	25876577.13	-66,747	458	0.00758415
2015-05-10T00:00:00.0	97129142.76	3,634,691	1419	0.00747989
2015-05-11T00:00:00.0	79335104.65	3,598,535	902	0.00725736
2015-05-12T00:00:00.0	170639243.5	4,970,572	2551	0.00723415
2015-05-13T00:00:00.0	152971052.5	3,918,874	1609	0.00708827
2015-05-14T00:00:00.0	121637654	6,636,622	920	0.00648587
2015-05-15T00:00:00.0	36516745.94	-77,165	739	0.00657261
2015-05-16T00:00:00.0	11576929.05	336,389	178	0.00653172
2015-05-17T00:00:00.0	66741317.8	4,447,858	1495	0.00646515
2015-05-18T00:00:00.0	234407787.1	4,737,866	10058	0.00621506
2015-05-19T00:00:00.0	156778687.9	182	1878	0.0057082
2015-05-20T00:00:00.0	66810180.09	110	853	0.0064869
2015-05-21T00:00:00.0	26697760.83		178	0.00636943
2015-05-22T00:00:00.0	41403175.37		435	0.0064473
2015-05-23T00:00:00.0	33591734.66		777	0.00659544
2015-05-24T00:00:00.0	17050199.2	0	216	0.0067361
2015-05-25T00:00:00.0	39401098.57		821	0.00671309
2015-05-26T00:00:00.0	73545837.35		507	0.00684932
2015-05-27T00:00:00.0	56597689.95		470	0.00668658
2015-05-28T00:00:00.0	108947220.3		1005	0.0067309
2015-05-29T00:00:00.0	175331587.7		1670	0.00790514
2015-05-30T00:00:00.0	43255497.99		335	0.00858245
2015-05-31T00:00:00.0	23113222.55		315	0.00816822
2015-06-01T00:00:00.0	104730032.8		1588	0.00819672
2015-06-02T00:00:00.0	64630029.81	0	1094	0.00737643
2015-06-03T00:00:00.0	45650876.83		637	0.00836146
2015-06-04T00:00:00.0	33100424.85		486	0.0078719
2015-06-05T00:00:00.0	27942519.83		461	0.00776838
2015-06-06T00:00:00.0	13336755		1377	0.00778309
2015-06-07T00:00:00.0	12927900.53		1120	0.00781259
2015-06-08T00:00:00.0	28096235.95		1402	0.00778347
2015-06-09T00:00:00.0	25526130.69		2480	0.00788009
2015-06-10T00:00:00.0	31794952.73		621	0.007955
2015-06-11T00:00:00.0	27583568.8		1161	0.0079
2015-06-12T00:00:00.0	22559938.27	0	1028	0.00788994
2015-06-13T00:00:00.0	13076701.92		438	0.00790296
2015-06-14T00:00:00.0	39873426.59		441	0.00813085
2015-06-15T00:00:00.0	80842440.27		765	0.00809865
2015-06-16T00:00:00.0	161433278.9	9	1905	0.00874126
2015-06-17T00:00:00.0	84749379.06		1447	0.00921837
2015-06-18T00:00:00.0	96436788.16		1811	0.00945679
2015-06-19T00:00:00.0	112515211.3		2511	0.0103566
2015-06-20T00:00:00.0	28931555.11		434	0.01077856



2015-06-21T00:00:00.0	57372162.71		2401	0.01059855
2015-06-22T00:00:00.0	55002402.71		5408	0.00999975
2015-06-23T00:00:00.0	44683013.47		7430	0.01069519
2015-06-24T00:00:00.0	57699072.08		773	0.0107529
2015-06-25T00:00:00.0	27452489.32		331	0.01086399
2015-06-26T00:00:00.0	28241772.95		502	0.01088086
2015-06-27T00:00:00.0	24452129.23		661	0.0112655
2015-06-28T00:00:00.0	21553030.37		377	0.01114445
2015-06-29T00:00:00.0	72090052.64		1454	0.0116171
2015-06-30T00:00:00.0	86877112.44		1394	0.01165818
2015-07-01T00:00:00.0	48137661.17		617	0.0106571
2015-07-02T00:00:00.0	37652197.56		822	0.01083651
2015-07-03T00:00:00.0	23250332		308	0.01098
2015-07-04T00:00:00.0	12457953.27		392	0.01083605
2015-07-05T00:00:00.0	74878244.05		629	0.01052
2015-07-06T00:00:00.0	94671948.1		906	0.00960378
2015-07-07T00:00:00.0	59707324.66		724	0.00963842
2015-07-08T00:00:00.0	71707024.23		702	0.00937037
2015-07-09T00:00:00.0	81651488.35		1123	0.0093
2015-07-10T00:00:00.0	108726227.6		1272	0.0084813
2015-07-11T00:00:00.0	35688204.08		439	0.00859712
2015-07-12T00:00:00.0	43517622.98		500	0.00845
2015-07-13T00:00:00.0	111306314.8	430,375	1147	0.00837018
2015-07-14T00:00:00.0	86582563.67	-6,186,599	1590	0.00851088
2015-07-15T00:00:00.0	58923528.86	-1,138,127	491	0.00846511
2015-07-16T00:00:00.0	93648912.27	3,237,983	1016	0.00843751
2015-07-17T00:00:00.0	39461929.94	3,957,295	272	0.00793642
2015-07-18T00:00:00.0	6645326.96	80,594	127	0.00806685
2015-07-19T00:00:00.0	9143413.82	142,531	75	0.00806685
2015-07-20T00:00:00.0	38056087.22	1,801,193	580	0.00801109
2015-07-21T00:00:00.0	71668482.89	2,040,034	990	0.00780557
2015-07-22T00:00:00.0	57714128.22	1,799,792	389	0.00768756
2015-07-23T00:00:00.0	26728623.94	825,640	302	0.0075373
2015-07-24T00:00:00.0	37954750.72	1,279,042	553	0.00750337
2015-07-25T00:00:00.0	28977463.1	894,596	276	0.0077
2015-07-26T00:00:00.0	27976368.95	997,366	506	0.00779801
2015-07-27T00:00:00.0	82211136.43	2,440,961	1090	0.0083022
2015-07-28T00:00:00.0	16268326.5	368,574	249	0.00864766
2015-07-29T00:00:00.0	24339973.79	494,714	245	0.00837804
2015-07-30T00:00:00.0	42455434.23	1,620,342	584	0.00846445
2015-07-31T00:00:00.0	50836584.76	1,568,950	706	0.00843791
2015-08-01T00:00:00.0	24776445.48	715,366	485	0.008259
2015-08-02T00:00:00.0	26221429.79	902,069	705	0.00814205



2015-08-03T00:00:00.0	31105943.51	941,078	844	0.00822076
2015-08-04T00:00:00.0	25664916.71	722,718	1119	0.00816991
2015-08-05T00:00:00.0	29476564.75	963,430	481	0.00816951
2015-08-06T00:00:00.0	57130832	1,643,920	799	0.00806144
2015-08-07T00:00:00.0	48818227.42	1,244,561	642	0.00775921
2015-08-08T00:00:00.0	91478009.11	91,316	1261	0.00805412
2015-08-09T00:00:00.0	66832090.1	1,440,313	1163	0.00839772
2015-08-10T00:00:00.0	57904152.87	1,595,746	640	0.00886418
2015-08-11T00:00:00.0	34486493.2	838,009	398	0.00857301
2015-08-12T00:00:00.0	38208104.16	416,749	475	0.00839092
2015-08-13T00:00:00.0	20581765.32	909,755	369	0.00817554
2015-08-14T00:00:00.0	57356917.92	2,165,495	985	0.008103
2015-08-15T00:00:00.0	20516129.06	424,377	430	0.00842052
2015-08-16T00:00:00.0	39904115.69	488,480	869	0.0083678
2015-08-17T00:00:00.0	42165925.93	538,290	375	0.0081887
2015-08-18T00:00:00.0	45805413.07	2,532,191	738	0.008084
2015-08-19T00:00:00.0	69100610.4	2,797,214	1314	0.00795515
2015-08-20T00:00:00.0	29889122.69	1,947,270	744	0.00772803
2015-08-21T00:00:00.0	40326519.87	1,444,959	502	0.00788721
2015-08-22T00:00:00.0	29445386.14	1,498,235	844	0.0078353
2015-08-23T00:00:00.0	19954390.02	653,648	470	0.00756915
2015-08-24T00:00:00.0	94807529.5	2,197,827	1584	0.00756715
2015-08-25T00:00:00.0	103532535.5	2,585,685	2189	0.00713772
2015-08-26T00:00:00.0	29361988.27	112	462	0.00719
2015-08-27T00:00:00.0	32144653.16	1,146,028	360	0.00748278
2015-08-28T00:00:00.0	57660450.25	2,888,165	715	0.007465
2015-08-29T00:00:00.0	54856713.48	1,993,894	845	0.00742944
2015-08-30T00:00:00.0	54790090.39	1,573,124	658	0.00776201
2015-08-31T00:00:00.0	92872510.69	5,963,717	1284	0.00786475
2015-09-01T00:00:00.0	61210127.95	2,532,664	945	0.0076494
2015-09-02T00:00:00.0	66212482.27	2,081,878	604	0.00783576
2015-09-09T00:00:00.0	34707448.17	1,901,397	509	0.00772049
2015-09-10T00:00:00.0	33987203.05	1,197,436	495	0.00763
2015-09-11T00:00:00.0	31399100.44	869,067	474	0.00759177
2015-09-12T00:00:00.0	14360655.76	146,954	555	0.00757438
2015-09-13T00:00:00.0	34430294.25	1,699,577	482	0.0075516
2015-09-14T00:00:00.0	48984815.98	1,739,026	1194	0.00747398
2015-09-15T00:00:00.0	104220657.9	5,113,871	1959	0.00713142
2015-09-16T00:00:00.0	49909025.74	1,496,434	1764	0.00735
2015-09-17T00:00:00.0	85425808.8	4,403,835	2142	0.00714994
2015-09-18T00:00:00.0	82395852.62	4,128,333	1364	0.00737463
2015-09-19T00:00:00.0	73670514.35	5,675,553	754	0.00720885
2015-09-20T00:00:00.0	69945463.04	4,337,999	653	0.00724337



2015-09-21T00:00:00.0	45324142.54	5,496,079	686	0.007153
2015-09-22T00:00:00.0	40559161.77	3,822,921	1326	0.00709204
2015-09-23T00:00:00.0	164887650.2	6,291,770	2491	0.00694036
2015-09-24T00:00:00.0	108857275.3	11,421,230	1747	0.00630692
2015-09-25T00:00:00.0	74214844.8	5,127,842	1159	0.00645154
2015-09-26T00:00:00.0	82320096.49	7,832,598	2099	0.00659423
2015-09-27T00:00:00.0	45982783.2	2,903,410	1103	0.00632446
2015-09-28T00:00:00.0	109207012.2	5,688,097	2502	0.00629607
2015-09-29T00:00:00.0	179516376.4	13,707,036	2900	0.00579034
2015-09-30T00:00:00.0	137062850.8	13,482,251	2271	0.0050138
2015-10-01T00:00:00.0	131853225.9	5,527,814	1025	0.00549748
2015-10-02T00:00:00.0	106192605.8	33	1584	0.00534638
2015-10-03T00:00:00.0	71521744.9	9,169,220	821	0.0057298
2015-10-04T00:00:00.0	71916410.87	5,418,626	884	0.00528998
2015-10-05T00:00:00.0	140688368.5	8,573,190	3033	0.00507495
2015-10-06T00:00:00.0	63268401.58		1486	0.00488563
2015-10-07T00:00:00.0	78052747.92	609,566	1248	0.00531513
2015-10-08T00:00:00.0	147988267.8	8,500,172	2012	0.00501573
2015-10-09T00:00:00.0	190741154.6	15,212,579	1761	0.00481928
2015-10-10T00:00:00.0	22307334.54		286	0.00500041
2015-10-11T00:00:00.0	24989091.42		402	0.00499744
2015-10-12T00:00:00.0	22731751.47		278	0.00516511
2015-10-13T00:00:00.0	73071597.7	2,668,274	1137	0.00519994
2015-10-14T00:00:00.0	67291714.04	1,833,274	612	0.00527193
2015-10-15T00:00:00.0	98332656.62	4,809,020	1050	0.00527299
2015-10-16T00:00:00.0	69643119.32	2,935,329	702	0.00528657
2015-10-17T00:00:00.0	85072766.58	3,828,111	1447	0.00528274
2015-10-18T00:00:00.0	50512501.63	2,956,771	1028	0.00501493
2015-10-19T00:00:00.0	70832734.64	2,674,701	1000	0.00485134
2015-10-20T00:00:00.0	94209007.5	3,218,598	1489	0.00490924
2015-10-21T00:00:00.0	55763605.11	4,605,975	796	0.00465619
2015-10-22T00:00:00.0	65866401.52	3,418,768	926	0.004608
2015-10-23T00:00:00.0	74012767.75	3,698,985	824	0.00467552
2015-10-24T00:00:00.0	43524939.12	793,464	687	0.0045846
2015-10-25T00:00:00.0	67897447.57	5,092,417	1493	0.0046199
2015-10-26T00:00:00.0	101151207.4	3,894,502	1008	0.00452771
2015-10-27T00:00:00.0	79615580.51	5,215,871	1583	0.004575
2015-10-28T00:00:00.0	78748401.02	3,383,163	7394	0.00455764
2015-10-29T00:00:00.0	109912857.5	6,394,414	3168	0.00459114
2015-10-30T00:00:00.0	183686409.9	8,428,362	3950	0.00452226
2015-10-31T00:00:00.0	65776364.35	3,765,915	1509	0.00466656
2015-11-01T00:00:00.0	94202888.01	3,915,101	3012	0.00463046
2015-11-02T00:00:00.0	109884240.5	4,739,115	12191	0.00480263



2015-11-03T00:00:00.0	175998013.4	9,051,937	16895	0.00501696
2015-11-04T00:00:00.0	269025656.7	13,196,592	8179	0.00526038
2015-11-05T00:00:00.0	253586628.7	16,448,509	5385	0.00459004
2015-11-06T00:00:00.0	186227757.3	11,779,448	2328	0.00440024
2015-11-07T00:00:00.0	76179420.49	5,254,791	924	0.00444806
2015-11-08T00:00:00.0	65685023.11	3,533,187	735	0.00456621
2015-11-09T00:00:00.0	66886554.48	4,312,877	879	0.00449062
2015-11-10T00:00:00.0	103762003.6	5,439,875	1950	0.00449438
2015-11-11T00:00:00.0	112379030.1	3,097,503	2264	0.00440635
2015-11-12T00:00:00.0	107905886.3	-3,712,724	2897	0.00416448
2015-11-13T00:00:00.0	81642466.49	10,865,001	1104	0.0043611
2015-11-14T00:00:00.0	36109307.12	3,286,654	753	0.00435718
2015-11-15T00:00:00.0	59162556.66	7,617,603	1302	0.00422654
2015-11-16T00:00:00.0	95339086.94	6,426,810	1141	0.004073
2015-11-17T00:00:00.0	55602866.51	4,736,938	944	0.00422833
2015-11-18T00:00:00.0	70372160.76	4,022,820	853	0.00420896
2015-11-19T00:00:00.0	46692752.75	3,531,279	488	0.00419982
2015-11-20T00:00:00.0	72913997.9	4,212,237	1116	0.0041841
2015-11-21T00:00:00.0	44410010.17	3,518,602	339	0.0042199
2015-11-22T00:00:00.0	45992764.42	3,438,098	863	0.00422434
2015-11-23T00:00:00.0	74699019.09	2,719,984	764	0.00418956
2015-11-24T00:00:00.0	49618742.22	3,078,946	396	0.00419335
2015-11-25T00:00:00.0	47423265.23	2,749,816	544	0.00423281
2015-11-26T00:00:00.0	92336696.11	4,480,300	944	0.00425351
2015-11-27T00:00:00.0	46634136.23	3,079,338	539	0.0042011
2015-11-28T00:00:00.0	45111584.01	2,483,784	487	0.00420327
2015-11-29T00:00:00.0	44212017.77	2,090,320	521	0.00421881
2015-11-30T00:00:00.0	66863940.79	3,254,436	1104	0.00420705
2015-12-01T00:00:00.0	87686940.14	4,496,681	1151	0.00419361
2015-12-02T00:00:00.0	76493878.81	2,654,572	1137	0.00412851
2015-12-03T00:00:00.0	31265763.12	-1,112,452	327	0.004269
2015-12-04T00:00:00.0	171033363.2	-5,153,604	2806	0.00429
2015-12-05T00:00:00.0	102102514.3	-5,592,261	2335	0.00477878
2015-12-06T00:00:00.0	147144995.2	-5,571,942	2333	0.00517947
2015-12-07T00:00:00.0	138640815.3	-1,530,621	1989	0.00535374
2015-12-08T00:00:00.0	274410269.6	325,819	5845	0.00554026
2015-12-09T00:00:00.0	494127274.2	21,886,125	11430	0.00695894
2015-12-10T00:00:00.0	303503997.2	15,835,438	7407	0.00824413
2015-12-11T00:00:00.0	368702088.1	8,950,656	8170	0.0075815
2015-12-12T00:00:00.0	124772095.6	3,994,552	6066	0.00862528
2015-12-13T00:00:00.0	140896085.1	8,157,948	7083	0.00870349
2015-12-14T00:00:00.0	316235979	11,156,645	8076	0.00860635
2015-12-15T00:00:00.0	512144954.1	3,310,385	6549	0.00652316



2015-12-16T00:00:00.0	137332858	-36,448	2262	0.00609756
2015-12-17T00:00:00.0	64586770.74	1,448,876	1234	0.0067
2015-12-18T00:00:00.0	111774275.8	3,437,638	2227	0.00640613
2015-12-19T00:00:00.0	58172183.8	3,247,664	1364	0.00616903
2015-12-20T00:00:00.0	76591278.18	1,133,790	1191	0.00612279
2015-12-21T00:00:00.0	73689198.87	1,400,163	1550	0.0062279
2015-12-22T00:00:00.0	77413629.63	1,929,419	1377	0.0060313
2015-12-23T00:00:00.0	56559094.25	2,690,333	1376	0.0060716
2015-12-24T00:00:00.0	51658138.07	1,110,564	717	0.00585467
2015-12-25T00:00:00.0	102522712.7	-11,989	1190	0.00602047
2015-12-26T00:00:00.0	108779547	5,813,089	1799	0.0065
2015-12-27T00:00:00.0	67934268.46	1,847,163	879	0.00609966
2015-12-28T00:00:00.0	70489079.68	3,184,692	1393	0.00634685
2015-12-29T00:00:00.0	42578294.75	1,205,916	1489	0.00635974
2015-12-30T00:00:00.0	43634345.02	1,347,126	723	0.00613497
2015-12-31T00:00:00.0	60483995.08	1,849,139	1368	0.00609013
2016-01-01T00:00:00.0	35431769.35	1,682,113	722	0.00586854
2016-01-02T00:00:00.0	47626341.26	1,790,587	1058	0.00592233
2016-01-03T00:00:00.0	42027214.21	1,733,948	443	0.00603342
2016-01-04T00:00:00.0	56010890.09	2,320,060	1028	0.00586354
2016-01-05T00:00:00.0	57545973.17	2,361,918	836	0.00589867
2016-01-06T00:00:00.0	54699567.02	1,535,065	907	0.00603136
2016-01-07T00:00:00.0	69928711.88	2,943,051	1254	0.00600154
2016-01-08T00:00:00.0	44352061.38	2,168,353	591	0.00594001
2016-01-09T00:00:00.0	34720934.54	720,570	634	0.00587513
2016-01-10T00:00:00.0	28614164.28	1,659,419	803	0.00594246
2016-01-11T00:00:00.0	33112211.57	1,350,505	916	0.0059453
2016-01-12T00:00:00.0	39337212.93	2,511,505	409	0.00588343
2016-01-13T00:00:00.0	79321033.62	4,117,386	1291	0.00582555
2016-01-14T00:00:00.0	132604840.8	10,114,316	2340	0.00570125
2016-01-15T00:00:00.0	79653069.57		1017	0.00553427
2016-01-16T00:00:00.0	51361939.04	-198	744	0.00505922
2016-01-17T00:00:00.0	86508313.94		571	0.0049505
2016-01-18T00:00:00.0	98962956.46	3,787,623	1048	0.00536868
2016-01-19T00:00:00.0	50369236.74	1,716,887	1218	0.00525722
2016-01-20T00:00:00.0	143205939.2	4,729,666	2360	0.00520148
2016-01-21T00:00:00.0	67120658.85	2,767,524	1934	0.00537679
2016-01-22T00:00:00.0	63199360.48	1,910,502	1160	0.00518403
2016-01-23T00:00:00.000Z		1,365,424	1110	0.00506741
2016-01-24T00:00:00.0	73902380.13	3,000,789	1008	0.00503121
2016-01-25T00:00:00.0	77526719.44	2,702,891	1197	0.00512258
2016-01-26T00:00:00.0	127541946.8	4,450,634	2033	0.00509719
2016-01-27T00:00:00.0	284274735.9	13,730,676	4794	0.00537028



2016-01-28T00:00:00.0	258780468.2	13,860,500	5336	0.00654461
2016-01-29T00:00:00.0	297710009.3	17,848,618	5977	0.0060423
2016-01-30T00:00:00.0	139160043.9	2,880,465	3555	0.00671983
2016-01-31T00:00:00.0	135618660.8	6,352,881	3511	0.00655247
2016-02-01T00:00:00.0	112731068.7	4,539,271	2385	0.00641437
2016-02-02T00:00:00.0	88427715.95	2,094,868	1914	0.00649562
2016-02-03T00:00:00.0	107765081.7	3,185,159	1684	0.00674894
2016-02-04T00:00:00.0	175025473.2	7,328,766	3171	0.00680735
2016-02-05T00:00:00.0	139825276	4,676,728	2326	0.00683
2016-02-06T00:00:00.000Z		7,384,180	3847	0.00730921
2016-02-07T00:00:00.0	211699180.4	7,863,380	3762	0.00797339
2016-02-08T00:00:00.0	97097627.01	2,668,784	2910	0.00786396
2016-02-09T00:00:00.0	100837858.9	3,471,489	2390	0.00764
2016-02-10T00:00:00.0	65751501.69	2,215,514	1228	0.00773943
2016-02-11T00:00:00.0	49478431.96	2,283,109	897	0.00762777
2016-02-12T00:00:00.0	75118456.79	2,579,664	958	0.00773395
2016-02-13T00:00:00.0	59388535.17	2,122,777	1701	0.00787295
2016-02-14T00:00:00.0	100510861.1	3,111,769	2295	0.00816904
2016-02-15T00:00:00.0	72284903.36	1,546,358	1159	0.00838425
2016-02-16T00:00:00.0	102703483.8	3,619,197	1861	0.00839385
2016-02-17T00:00:00.0	168190749.4	6,724,900	2464	0.00818391
2016-02-18T00:00:00.0	94978538.64	2,876,457	1887	0.0078064
2016-02-19T00:00:00.0	81414300.49	3,142,988	1484	0.00799464
2016-02-20T00:00:00.0	55025862.88	663,809	1049	0.00817661
2016-02-21T00:00:00.0	53090441.81	3,419,588	728	0.00806323
2016-02-22T00:00:00.0	72448938.29	2,762,733	1269	0.00792393
2016-02-23T00:00:00.0	94948723.24	3,519,978	1799	0.00789266
2016-02-24T00:00:00.0	54736307.33	1,786,268	1068	0.00791156
2016-02-25T00:00:00.0	106437685.2	3,578,858	1909	0.00795545
2016-02-26T00:00:00.0	69871906.13	1,082,409	1087	0.00797444
2016-02-27T00:00:00.0	49590138.48	3,130,194	773	0.00792687
2016-02-28T00:00:00.0	68172963.29	2,575,422	1096	0.00787402
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0.00589275	0.0057731	0.0057731	0.00583379	2016-01-12T;2016-01-12T;
0.00585195	0.00563697	0.00571102	0.00574549	2016-01-13T;2016-01-13T;
0.00570125	0.00531592	0.00553427	0.00551861	2016-01-14T;2016-01-14T;
0.00553427	0.00509108	0.00509108	0.0052872	2016-01-15T;2016-01-15T;
0.00514061	0.00492071	0.0049505	0.00498944	2016-01-16T;2016-01-16T;
0.00555556	0.00487807	0.00536349	0.00510716	2016-01-17T;2016-01-17T;
0.00550994	0.0051532	0.0052521	0.00530274	2016-01-18T;2016-01-18T;
0.00530335	0.0051907	0.00520148	0.00525174	2016-01-19T;2016-01-19T;
0.00539084	0.0051	0.00538213	0.00523767	2016-01-20T;2016-01-20T;
0.00541343	0.00513084	0.00518135	0.0053001	2016-01-21T;2016-01-21T;
0.00526316	0.00503522	0.00505306	0.00514143	2016-01-22T(2016-01-22T;
0.00515464	0.00501801	0.00503516	0.00508768	2016-01-23T(2016-01-23T;
0.00524659	0.00501842	0.00515198	0.00512883	2016-01-24T(2016-01-24T;
0.00520021	0.00505149	0.00509684	0.00510301	2016-01-25T(2016-01-25T;
0.00571843	0.00505515	0.00537057	0.00532504	2016-01-26T(2016-01-26T;
0.00723066	0.0053666	0.00654598	0.00625147	2016-01-27T(2016-01-27T;



0.00659957	0.00555	0.00603368	0.00606456	2016-01-28T(2016-01-28T
0.00724638	0.00575245	0.00671592	0.0067508	2016-01-29T(2016-01-29T
0.007	0.00621118	0.00651911	0.00661387	2016-01-30T(2016-01-30T
0.0069927	0.00616523	0.00642743	0.00637156	2016-01-31T(2016-01-31T
0.00661495	0.00632911	0.00649562	0.006484	2016-02-01T(2016-02-01T
0.00680272	0.00647355	0.00673751	0.00666013	2016-02-02T(2016-02-02T
0.00696864	0.00671141	0.00681549	0.00681949	2016-02-03T(2016-02-03T
0.0069735	0.00673132	0.00684463	0.00686125	2016-02-04T(2016-02-04T
0.00742391	0.00683	0.0073068	0.0071682	2016-02-05T(2016-02-05T
0.00824294	0.00718343	0.00797089	0.00772016	2016-02-06T(2016-02-06T
0.00899	0.00755	0.00788022	0.00834173	2016-02-07T(2016-02-07T
0.0084674	0.00759524	0.00764	0.00795055	2016-02-08T(2016-02-08T
0.00776398	0.00745	0.00771971	0.00762007	2016-02-09T(2016-02-09T
0.00780081	0.00757776	0.00762777	0.00771013	2016-02-10T(2016-02-10T
0.0077821	0.00758	0.00774093	0.00771661	2016-02-11T(2016-02-11T
0.00790514	0.00763742	0.0078535	0.00775993	2016-02-12T(2016-02-12T
0.00819363	0.00787249	0.00816904	0.00805432	2016-02-13T(2016-02-13T
0.00859815	0.00809342	0.00839631	0.00835449	2016-02-14T(2016-02-14T
0.00854011	0.00833333	0.00839351	0.00842635	2016-02-15T(2016-02-15T
0.008429	0.00762556	0.00818391	0.00819668	2016-02-16T(2016-02-16T
0.00828192	0.00750813	0.00778921	0.00802625	2016-02-17T(2016-02-17T
0.00816199	0.00758265	0.0079751	0.00785223	2016-02-18T(2016-02-18T
0.0082	0.00796795	0.00817092	0.00810231	2016-02-19T(2016-02-19T
0.00823074	0.00796732	0.00802669	0.00810409	2016-02-20T(2016-02-20T
0.00806323	0.00787402	0.00792791	0.00795276	2016-02-21T(2016-02-21T
0.00798335	0.00786	0.00789889	0.00792293	2016-02-22T(2016-02-22T
0.00794971	0.0078	0.00791139	0.00787123	2016-02-23T(2016-02-23T
0.007969	0.0078187	0.00796086	0.00790422	2016-02-24T(2016-02-24T
0.008101	0.00775736	0.00796178	0.00794373	2016-02-25T(2016-02-25T
0.00803932	0.00787402	0.00793021	0.00798951	2016-02-26T(2016-02-26T
0.00796216	0.00775194	0.00787402	0.00786093	2016-02-27T(2016-02-27T
0.00788022	0.00764873	0.00779423	0.00776786	2016-02-28T(2016-02-28T
0.00794885	0.00769597	0.00791139	0.00779486	2016-02-29T(2016-02-29T
0.00799108	0.00781253	0.00796178	0.00791421	2016-03-01T(2016-03-01T
0.008	0.00787807	0.00796178	0.00795771	2016-03-02T(2016-03-02T
0.00803183	0.00781616	0.008	0.00795868	2016-03-03T(2016-03-03T
0.00807754	0.00791889	0.00805802	0.00800798	2016-03-04T(2016-03-04T
0.00811084	0.00771642	0.0077568	0.00787372	2016-03-05T(2016-03-05T
0.00784314	0.00769545	0.0078044	0.00776855	2016-03-06T(2016-03-06T
0.00795786	0.00772778	0.00786633	0.00781557	2016-03-07T(2016-03-07T
0.00787402	0.007804	0.00782551	0.00783933	2016-03-08T(2016-03-08T
0.00801925	0.00786325	0.00797637	0.00793356	2016-03-09T(2016-03-09T
0.00819307	0.00790297	0.00814332	0.00806848	2016-03-10T(2016-03-10T



0.00930233	0.0081184	0.00853836	0.00870122	2016-03-11T(2016-03-11T
0.0089991	0.00840336	0.00851014	0.00860783	2016-03-12T(2016-03-12T
0.00863234	0.00841	0.00846909	0.0085013	2016-03-13T(2016-03-13T
0.00848992	0.00823197	0.00836886	0.00838067	2016-03-14T(2016-03-14T
0.0083612	0.00822094	0.00822368	0.00828885	2016-03-15T(2016-03-15T
0.00832227	0.00811	0.00817686	0.00818994	2016-03-16T(2016-03-16T
0.00833188	0.00813637	0.0081508	0.00821307	2016-03-17T(2016-03-17T
0.008184	0.008	0.00804889	0.00810028	2016-03-18T(2016-03-18T
0.00806331	0.00786164	0.00786402	0.00793848	2016-03-19T(2016-03-19T
0.00792393	0.007785	0.00780903	0.00784519	2016-03-20T(2016-03-20T
0.008	0.007785	0.00791766	0.00789756	2016-03-21T(2016-03-21T
0.0081879	0.00785592	0.00814332	0.00798709	2016-03-22T(2016-03-22T
0.00839238	0.0080248	0.00836783	0.00823909	2016-03-23T(2016-03-23T
0.00837521	0.00808489	0.00820134	0.00821417	2016-03-24T(2016-03-24T
0.00821085	0.00805244	0.00807103	0.00812997	2016-03-25T(2016-03-25T
0.00807822	0.00794326	0.00798758	0.00802472	2016-03-26T(2016-03-26T
0.0080389	0.00791218	0.00793587	0.00798361	2016-03-27T(2016-03-27T
0.00794913	0.00700001	0.00729824	0.0075546	2016-03-28T(2016-03-28T
0.00781861	0.00720385	0.00749677	0.00747614	2016-03-29T(2016-03-29T
0.00751114	0.00697313	0.00698327	0.00723807	2016-03-30T(2016-03-30T
0.00752445	0.00687983	0.00739098	0.00725132	2016-03-31T(2016-03-31T
0.00749625	0.00715815	0.00731977	0.00732142	2016-04-01T(2016-04-01T
0.0075	0.00725041	0.00743494	0.00741991	2016-04-02T(2016-04-02T
0.0075	0.00735263	0.00743157	0.0074257	2016-04-03T(2016-04-03T
0.00744048	0.00735699	0.0074026	0.00740128	2016-04-04T(2016-04-04T
0.00745396	0.00733405	0.00735294	0.0073954	2016-04-05T(2016-04-05T
0.00735338	0.00714653	0.00719102	0.00723842	2016-04-06T(2016-04-06T
0.00721573	0.00648545	0.00664894	0.00673735	2016-04-07T(2016-04-07T
0.00672495	0.00650846	0.00659541	0.00660762	2016-04-08T(2016-04-08T
0.00659544	0.00605	0.00605214	0.00622163	2016-04-09T(2016-04-09T
0.00607201	0.00565704	0.00594907	0.00587328	2016-04-10T(2016-04-10T
0.00656978	0.00567664	0.00590831	0.00604792	2016-04-11T(2016-04-11T
0.00602859	0.00569986	0.00583015	0.00584186	2016-04-12T(2016-04-12T
0.00583015	0.0055201	0.00564972	0.00564646	2016-04-13T(2016-04-13T



XRP % Volume	Price Move (in USD terms)	Monthly average Price Move
-3.45%	1.38%	-2.00%
-6.50%	-0.94%	-2.00%
-2.84%	-11.76%	-2.00%
0.00%	-15.55%	-2.00%
-3.21%	-2.22%	-2.00%
-10.15%	2.40%	-2.00%
-8.31%	0.95%	-2.00%
-6.59%	0.39%	-2.00%
-9.05%	-3.85%	-2.00%
-5.81%	-5.84%	-2.00%
-3.23%	-2.77%	-2.00%
0.12%	-2.26%	-2.00%
-1.26%	-24.44%	-2.00%
0.00%	0.69%	-2.00%
-3.71%	18.72%	-2.00%
-7.08%	-4.26%	-2.00%
-5.26%	-6.48%	-2.00%
-4.05%	3.60%	-2.00%
-4.09%	4.28%	-2.00%
-4.98%	1.36%	-2.00%
-1.54%	1.12%	-2.00%
-1.90%	3.24%	-2.00%
-3.93%	-3.39%	-2.00%
-2.19%	-1.19%	-2.00%
1.06%	0.33%	-2.00%
-1.30%	-4.93%	-2.00%
-2.50%	-2.93%	-2.00%
-2.40%	-4.34%	-2.00%
-2.68%	-2.70%	-2.00%
-3.30%	1.52%	-2.00%
-3.02%	-2.23%	-2.00%
-3.50%	-0.75%	-0.41%
-3.99%	-3.81%	-0.41%
-3.05%	-1.49%	-0.41%
-1.70%	1.34%	-0.41%
-3.20%	15.56%	-0.41%
-1.86%	-8.79%	-0.41%
-3.84%	2.79%	-0.41%
-2.40%	-3.44%	-0.41%
-1.10%	-3.25%	-0.41%
-1.73%	-0.45%	-0.41%
-2.36%	0.67%	-0.41%



-0.83%	0.86%	-0.41%
-0.72%	4.03%	-0.41%
-1.04%	-0.48%	-0.41%
-2.06%	-5.33%	-0.41%
-2.53%	0.73%	-0.41%
0.00%	0.72%	-0.41%
0.00%	-1.56%	-0.41%
-1.45%	-0.56%	-0.41%
-4.22%	-4.66%	-0.41%
-6.63%	1.23%	-0.41%
-2.29%	-2.46%	-0.41%
-5.66%	1.50%	-0.41%
-4.79%	0.71%	-0.41%
-4.97%	-0.69%	-0.41%
-7.34%	-0.54%	-0.41%
-4.95%	-0.10%	-0.41%
-2.39%	-3.31%	-0.41%
-2.06%	-11.49%	-1.54%
-2.00%	4.85%	-1.54%
-0.93%	-26.06%	-1.54%
-0.74%	21.72%	-1.54%
-0.72%	6.90%	-1.54%
-5.58%	-6.29%	-1.54%
-6.70%	-9.82%	-1.54%
-5.27%	1.82%	-1.54%
-2.85%	7.03%	-1.54%
-4.81%	-2.91%	-1.54%
-3.56%	0.93%	-1.54%
-3.83%	2.79%	-1.54%
-1.20%	1.63%	-1.54%
-5.29%	1.58%	-1.54%
-3.93%	-3.06%	-1.54%
-5.34%	-0.87%	-1.54%
-4.10%	1.52%	-1.54%
-8.38%	-4.02%	-1.54%
-3.64%	1.26%	-1.54%
-5.65%	-2.15%	-1.54%
-4.11%	-3.13%	-1.54%
-3.71%	-0.46%	-1.54%
-5.97%	-2.85%	-1.54%
0.59%	-4.30%	-1.54%
-0.80%	-6.28%	-1.54%
-1.32%	-1.04%	-1.54%



-1.09%	-1.02%	-1.54%
-3.97%	-0.22%	-1.54%
-6.40%	-2.50%	-1.54%
-7.89%	-3.45%	-1.54%
-4.22%	-7.87%	-1.54%
-4.68%	2.54%	0.19%
-1.23%	4.00%	0.19%
-5.17%	12.96%	0.19%
-3.98%	-3.54%	0.19%
-2.54%	-0.25%	0.19%
-3.10%	1.10%	0.19%
-1.78%	5.36%	0.19%
-1.95%	-1.54%	0.19%
-2.13%	-5.82%	0.19%
-2.09%	-1.66%	0.19%
-1.89%	-3.22%	0.19%
-2.80%	1.41%	0.19%
-2.17%	-4.24%	0.19%
-2.30%	-3.20%	0.19%
-3.61%	0.86%	0.19%
-3.56%	1.60%	0.19%
-3.10%	-1.59%	0.19%
-6.43%	-0.55%	0.19%
-3.77%	-1.22%	0.19%
-5.37%	2.22%	0.19%
-3.94%	2.27%	0.19%
-0.07%	0.07%	0.19%
-8.64%	-1.30%	0.19%
-5.10%	-2.13%	0.19%
-7.01%	1.19%	0.19%
-4.03%	-2.42%	0.19%
-3.05%	-2.06%	0.19%
-3.75%	1.38%	0.19%
-3.65%	2.08%	0.19%
-3.66%	1.32%	0.19%
-4.25%	-0.64%	0.31%
-0.48%	1.73%	0.31%
-3.93%	-0.28%	0.31%
-6.44%	-0.22%	0.31%
-2.25%	-2.60%	0.31%
-3.45%	-0.43%	0.31%
-3.09%	-8.19%	0.31%
-1.73%	7.65%	0.31%



0.26%	-1.04%	0.31%
-3.74%	-2.62%	0.31%
-4.54%	-0.30%	0.31%
-2.91%	-2.23%	0.31%
-2.56%	-9.77%	0.31%
-5.46%	1.09%	0.31%
0.21%	-0.88%	0.31%
-2.91%	-0.76%	0.31%
-6.66%	-3.86%	0.31%
-2.02%	-12.14%	0.31%
0.00%	13.25%	0.31%
0.00%	-2.23%	0.31%
0.00%	1.32%	0.31%
0.00%	2.76%	0.31%
0.00%	1.74%	0.31%
0.00%	-0.34%	0.31%
0.00%	2.03%	0.31%
0.00%	-2.96%	0.31%
0.00%	0.71%	0.31%
0.00%	17.45%	0.31%
0.00%	16.00%	0.31%
0.00%	-4.83%	0.31%
0.00%	0.35%	0.31%
0.00%	-11.52%	0.80%
0.00%	12.53%	0.80%
0.00%	-6.82%	0.80%
0.00%	-2.05%	0.80%
0.00%	0.16%	0.80%
0.00%	0.36%	0.80%
0.00%	0.28%	0.80%
0.00%	1.21%	0.80%
0.00%	-0.08%	0.80%
0.00%	-0.69%	0.80%
0.00%	0.57%	0.80%
0.00%	0.62%	0.80%
0.00%	-0.01%	0.80%
0.00%	-1.10%	0.80%
0.00%	7.37%	0.80%
0.00%	5.86%	0.80%
0.00%	2.59%	0.80%
0.00%	8.79%	0.80%
0.00%	7.25%	0.80%
0.00%	-1.57%	0.80%



0.00%	-5.32%	0.80%
0.00%	6.95%	0.80%
0.00%	-1.55%	0.80%
0.00%	1.93%	0.80%
0.00%	0.01%	0.80%
0.00%	4.27%	0.80%
0.00%	-0.04%	0.80%
0.00%	4.28%	0.80%
0.00%	-0.32%	0.80%
0.00%	-9.98%	0.80%
0.00%	1.80%	-0.77%
0.00%	0.55%	-0.77%
0.00%	-1.31%	-0.77%
0.00%	-2.74%	-0.77%
0.00%	-7.60%	-0.77%
0.00%	0.39%	-0.77%
0.00%	-3.30%	-0.77%
0.00%	-0.75%	-0.77%
0.00%	-8.21%	-0.77%
0.00%	1.50%	-0.77%
0.00%	-1.71%	-0.77%
0.00%	-1.26%	-0.77%
-0.39%	1.62%	-0.77%
7.15%	-0.56%	-0.77%
1.93%	-0.33%	-0.77%
-3.46%	-6.24%	-0.77%
-10.03%	1.64%	-0.77%
-1.21%	-0.29%	-0.77%
-1.56%	-1.41%	-0.77%
-4.73%	-2.32%	-0.77%
-2.85%	-0.02%	-0.77%
-3.12%	-2.30%	-0.77%
-3.09%	0.50%	-0.77%
-3.37%	2.62%	-0.77%
-3.09%	1.22%	-0.77%
-3.57%	5.80%	-0.77%
-2.97%	3.59%	-0.77%
-2.27%	-3.05%	-0.77%
-2.03%	1.10%	-0.77%
-3.82%	-0.81%	-0.77%
-3.09%	-1.87%	-0.77%
-2.89%	-1.27%	-0.30%
-3.44%	0.98%	-0.30%



-3.03%	-0.62%	-0.30%
-2.82%	0.15%	-0.30%
-3.27%	-1.49%	-0.30%
-2.88%	-3.72%	-0.30%
-2.55%	4.06%	-0.30%
-0.10%	4.22%	-0.30%
-2.16%	2.20%	-0.30%
-2.76%	-3.34%	-0.30%
-2.43%	-2.55%	-0.30%
-1.09%	-2.45%	-0.30%
-4.42%	-0.90%	-0.30%
-3.78%	4.19%	-0.30%
-2.07%	-0.87%	-0.30%
-1.22%	-2.14%	-0.30%
-1.28%	-0.76%	-0.30%
-5.53%	-1.59%	-0.30%
-4.05%	-2.88%	-0.30%
-6.51%	2.19%	-0.30%
-3.58%	-0.72%	-0.30%
-5.09%	-3.64%	-0.30%
-3.28%	-0.46%	-0.30%
-2.32%	-5.09%	-0.30%
-2.50%	0.87%	-0.30%
0.00%	3.92%	-0.30%
-3.57%	0.09%	-0.30%
-5.01%	-0.27%	-0.30%
-3.63%	4.39%	-0.30%
-2.87%	1.09%	-0.30%
-6.42%	-2.76%	-0.30%
-4.14%	2.59%	-1.32%
-3.14%	-3.07%	-1.32%
-5.48%	-1.26%	-1.32%
-3.52%	-0.50%	-1.32%
-2.77%	-0.44%	-1.32%
-1.02%	-0.35%	-1.32%
-4.94%	-1.32%	-1.32%
-3.55%	-4.59%	-1.32%
-4.91%	3.07%	-1.32%
-3.00%	-2.72%	-1.32%
-5.16%	3.04%	-1.32%
-5.01%	-1.89%	-1.32%
-7.70%	0.46%	-1.32%
-6.20%	-0.74%	-1.32%



-12.13%	-0.70%	-1.32%
-9.43%	-2.06%	-1.32%
-3.82%	-9.26%	-1.32%
-10.49%	2.36%	-1.32%
-6.91%	2.33%	-1.32%
-9.51%	-4.09%	-1.32%
-6.31%	-0.72%	-1.32%
-5.21%	-7.88%	-1.32%
-7.64%	-13.51%	-1.32%
-9.84%	9.57%	-1.32%
-4.19%	-2.80%	-0.54%
0.00%	7.20%	-0.54%
-12.82%	-7.69%	-0.54%
-7.53%	-4.09%	-0.54%
-6.09%	-3.73%	-0.54%
0.00%	8.66%	-0.54%
-0.78%	-5.30%	-0.54%
-5.74%	-3.94%	-0.54%
-7.98%	2.93%	-0.54%
0.00%	-0.06%	-0.54%
0.00%	3.26%	-0.54%
0.00%	0.67%	-0.54%
-3.65%	0.69%	-0.54%
-2.72%	0.25%	-0.54%
-4.89%	0.26%	-0.54%
-4.21%	-0.07%	-0.54%
-4.50%	-5.01%	-0.54%
-5.85%	-3.60%	-0.54%
-3.78%	1.21%	-0.54%
-3.42%	-5.21%	-0.54%
-8.26%	-1.61%	-0.54%
-5.19%	1.39%	-0.54%
-5.00%	-2.10%	-0.54%
-1.82%	1.31%	-0.54%
-7.50%	-1.78%	-0.54%
-3.85%	1.04%	-0.54%
-6.55%	-0.28%	-0.54%
-4.30%	0.73%	-0.54%
-5.82%	-1.50%	-0.54%
-4.59%	3.03%	-0.54%
-5.73%	-0.73%	-0.54%
-4.16%	3.50%	-0.26%
-4.31%	4.46%	-0.26%



-5.14%	4.85%	-0.26%
-4.91%	-12.60%	-0.26%
-6.49%	-4.28%	-0.26%
-6.33%	0.83%	-0.26%
-6.90%	2.66%	-0.26%
-5.38%	-1.66%	-0.26%
-6.45%	-0.25%	-0.26%
-5.24%	-1.96%	-0.26%
-2.76%	-5.25%	-0.26%
3.44%	4.76%	-0.26%
-13.31%	-0.35%	-0.26%
-9.10%	-2.89%	-0.26%
-12.88%	-3.07%	-0.26%
-6.74%	3.84%	-0.26%
-8.52%	-0.43%	-0.26%
-5.72%	-0.21%	-0.26%
-7.56%	-0.35%	-0.26%
-5.78%	0.86%	-0.26%
-7.92%	0.37%	-0.26%
-7.48%	-0.78%	-0.26%
-3.64%	0.50%	-0.26%
-6.21%	1.04%	-0.26%
-5.80%	0.46%	-0.26%
-4.85%	-1.21%	-0.26%
-6.60%	0.18%	-0.26%
-5.51%	0.56%	-0.26%
-4.73%	-0.11%	-0.26%
-4.87%	-1.19%	-0.26%
-5.13%	-1.34%	1.44%
-3.47%	3.40%	1.44%
3.56%	0.49%	1.44%
3.01%	11.25%	1.44%
5.48%	8.40%	1.44%
3.79%	3.46%	1.44%
1.10%	3.60%	1.44%
-0.12%	25.14%	1.44%
-4.43%	18.37%	1.44%
-5.22%	-8.03%	1.44%
-2.43%	13.90%	1.44%
-3.20%	0.76%	1.44%
-5.79%	-0.71%	1.44%
-3.53%	-24.34%	1.44%
-0.65%	-6.49%	1.44%

0.03%	10.25%	1.44%
-2.24%	-4.39%	1.44%
-3.08%	-3.58%	1.44%
-5.58%	-0.55%	1.44%
-1.48%	1.70%	1.44%
-1.90%	-3.20%	1.44%
-2.49%	0.98%	1.44%
-4.76%	-3.80%	1.44%
-2.15%	2.19%	1.44%
0.01%	7.96%	1.44%
-5.34%	-6.15%	1.44%
-2.72%	4.08%	1.44%
-4.52%	-0.25%	1.44%
-2.83%	-4.02%	1.44%
-3.09%	-0.73%	1.44%
-3.06%	-3.79%	1.44%
-4.75%	0.77%	0.41%
-3.76%	1.90%	0.41%
-4.13%	-2.90%	0.41%
-4.14%	0.36%	0.41%
-4.10%	2.07%	0.41%
-2.81%	-0.48%	0.41%
-4.21%	-1.03%	0.41%
-4.89%	-1.09%	0.41%
-2.08%	1.38%	0.41%
-5.80%	0.05%	0.41%
-4.08%	-0.88%	0.41%
-6.38%	-1.88%	0.41%
-5.19%	-1.97%	0.41%
-7.63%	-2.93%	0.41%
0.00%	-8.01%	0.41%
0.00%	-2.15%	0.41%
0.00%	8.34%	0.41%
-3.83%	-2.17%	0.41%
-3.41%	-1.06%	0.41%
-3.30%	3.47%	0.41%
-4.12%	-3.63%	0.41%
-3.02%	-2.53%	0.41%
	-0.64%	0.41%
	2.40%	0.41%
	-0.50%	0.41%
	5.36%	0.41%
	21.89%	0.41%

23:53:31Z



	-5.36%	-7.81%	0.41%
	-6.00%	11.15%	0.41%
	-2.07%	-2.99%	0.41%
	-4.68%	-1.91%	0.41%
	-4.03%	1.27%	0.73%
	-2.37%	3.72%	0.73%
	-2.96%	0.99%	0.73%
	-4.19%	0.55%	0.73%
	-3.34%	6.98%	0.73%
13:59:42Z		9.05%	0.73%
	-3.71%	-1.17%	0.73%
	-2.75%	-2.85%	0.73%
	-3.44%	1.04%	0.73%
	-3.37%	-1.44%	0.73%
	-4.61%	1.48%	0.73%
	-3.43%	1.55%	0.73%
	-3.57%	3.76%	0.73%
	-3.10%	2.78%	0.73%
	-2.14%	0.11%	0.73%
	-3.52%	-2.50%	0.73%
	-4.00%	-4.82%	0.73%
	-3.03%	2.16%	0.73%
	-3.86%	2.20%	0.73%
	-1.21%	-1.83%	0.73%
	-6.44%	-1.68%	0.73%
	-3.81%	-0.32%	0.73%
	-3.71%	0.24%	0.73%
	-3.26%	0.62%	0.73%
	-3.36%	0.08%	0.73%
	-1.55%	-0.55%	0.73%
	-6.31%	-0.67%	0.73%
	-3.78%	-1.01%	0.73%
	-3.50%	1.49%	0.73%
	-3.16%	0.64%	-0.20%
	-3.29%	0.08%	-0.20%
	2.17%	0.48%	-0.20%
	-12.00%	0.61%	-0.20%
	-3.20%	-3.74%	-0.20%
	-3.33%	0.87%	-0.20%
	-1.59%	0.77%	-0.20%
	-5.07%	-0.54%	-0.20%
	-3.58%	0.89%	-0.20%
	-3.51%	2.36%	-0.20%

-3.80%	4.94%	-0.20%
-3.16%	-0.33%	-0.20%
-3.62%	-0.56%	-0.20%
-3.40%	-1.27%	-0.20%
-3.14%	-1.37%	-0.20%
-3.76%	-0.43%	-0.20%
-3.25%	-0.32%	-0.20%
-3.79%	-1.32%	-0.20%
-2.13%	-2.30%	-0.20%
-6.00%	-1.13%	-0.20%
-2.29%	1.39%	-0.20%
-3.99%	2.81%	-0.20%
-4.33%	3.01%	-0.20%
-3.21%	-1.97%	-0.20%
-3.00%	-1.55%	-0.20%
-3.44%	-0.83%	-0.20%
-1.77%	-0.89%	-0.20%
-3.18%	-7.96%	-0.20%
-4.90%	2.69%	-0.20%
-2.92%	-6.83%	-0.20%
-4.16%	5.56%	-0.20%
-2.93%	-1.12%	-2.03%
-5.57%	1.59%	-2.03%
-2.15%	-0.07%	-2.03%
-2.82%	-0.50%	-2.03%
-3.06%	-0.59%	-2.03%
-3.46%	-2.21%	-2.03%
-3.73%	-7.71%	-2.03%
-3.40%	-0.74%	-2.03%
-2.39%	-8.24%	-2.03%
0.00%	-1.70%	-2.03%
0.00%	-0.90%	-2.03%
0.00%	-1.21%	-2.03%
	-2.99%	-2.03%

L7:50:11Z



**Overall Correlation:**

0.10989305

XRP % Volume	Price Move (in USD terms)	Monthly average Price Move
-13.31%	-0.35%	-0.26%
-12.88%	-3.07%	-0.26%
-12.82%	-7.69%	-0.54%
-12.13%	-0.70%	-1.32%
-12.00%	0.61%	-0.20%
-10.49%	2.36%	-1.32%
-10.15%	2.40%	-2.00%
-10.03%	1.64%	-0.77%
-9.84%	9.57%	-1.32%
-9.51%	-4.09%	-1.32%
-9.43%	-2.06%	-1.32%
-9.10%	-2.89%	-0.26%
-9.05%	-3.85%	-2.00%
-8.64%	-1.30%	0.19%
-8.52%	-0.43%	-0.26%
-8.38%	-4.02%	-1.54%
-8.31%	0.95%	-2.00%
-8.26%	-1.61%	-0.54%
-7.98%	2.93%	-0.54%
-7.92%	0.37%	-0.26%
-7.89%	-3.45%	-1.54%
-7.70%	0.46%	-1.32%
-7.64%	-13.51%	-1.32%
-7.63%	-2.93%	0.41%
-7.56%	-0.35%	-0.26%
-7.53%	-4.09%	-0.54%
-7.50%	-1.78%	-0.54%
-7.48%	-0.78%	-0.26%
-7.34%	-0.54%	-0.41%
-7.08%	-4.26%	-2.00%
-7.01%	1.19%	0.19%
-6.91%	2.33%	-1.32%
-6.90%	2.66%	-0.26%
-6.74%	3.84%	-0.26%
-6.70%	-9.82%	-1.54%
-6.66%	-3.86%	0.31%
-6.63%	1.23%	-0.41%
-6.60%	0.18%	-0.26%
-6.59%	0.39%	-2.00%
-6.55%	-0.28%	-0.54%
-6.51%	2.19%	-0.30%
-6.50%	-0.94%	-2.00%



-6.49%	-4.28%	-0.26%
-6.45%	-0.25%	-0.26%
-6.44%	-1.68%	0.73%
-6.44%	-0.22%	0.31%
-6.43%	-0.55%	0.19%
-6.42%	-2.76%	-0.30%
-6.40%	-2.50%	-1.54%
-6.38%	-1.88%	0.41%
-6.33%	0.83%	-0.26%
-6.31%	-0.72%	-1.32%
-6.31%	-0.67%	0.73%
-6.21%	1.04%	-0.26%
-6.20%	-0.74%	-1.32%
-6.09%	-3.73%	-0.54%
-6.00%	-1.13%	-0.20%
-6.00%	11.15%	0.41%
-5.97%	-2.85%	-1.54%
-5.85%	-3.60%	-0.54%
-5.82%	-1.50%	-0.54%
-5.81%	-5.84%	-2.00%
-5.80%	0.05%	0.41%
-5.80%	0.46%	-0.26%
-5.79%	-0.71%	1.44%
-5.78%	0.86%	-0.26%
-5.74%	-3.94%	-0.54%
-5.73%	-0.73%	-0.54%
-5.72%	-0.21%	-0.26%
-5.66%	1.50%	-0.41%
-5.65%	-2.15%	-1.54%
-5.58%	-0.55%	1.44%
-5.58%	-6.29%	-1.54%
-5.57%	1.59%	-2.03%
-5.53%	-1.59%	-0.30%
-5.51%	0.56%	-0.26%
-5.48%	-1.26%	-1.32%
-5.46%	1.09%	0.31%
-5.38%	-1.66%	-0.26%
-5.37%	2.22%	0.19%
-5.36%	-7.81%	0.41%
-5.34%	-6.15%	1.44%
-5.34%	-0.87%	-1.54%
-5.29%	1.58%	-1.54%
-5.27%	1.82%	-1.54%

-5.26%	-6.48%	-2.00%
-5.24%	-1.96%	-0.26%
-5.22%	-8.03%	1.44%
-5.21%	-7.88%	-1.32%
-5.19%	-1.97%	0.41%
-5.19%	1.39%	-0.54%
-5.17%	12.96%	0.19%
-5.16%	3.04%	-1.32%
-5.14%	4.85%	-0.26%
-5.13%	-1.34%	1.44%
-5.10%	-2.13%	0.19%
-5.09%	-3.64%	-0.30%
-5.07%	-0.54%	-0.20%
-5.01%	-1.89%	-1.32%
-5.01%	-0.27%	-0.30%
-5.00%	-2.10%	-0.54%
-4.98%	1.36%	-2.00%
-4.97%	-0.69%	-0.41%
-4.95%	-0.10%	-0.41%
-4.94%	-1.32%	-1.32%
-4.91%	3.07%	-1.32%
-4.91%	-12.60%	-0.26%
-4.90%	2.69%	-0.20%
-4.89%	0.26%	-0.54%
-4.89%	-1.09%	0.41%
-4.87%	-1.19%	-0.26%
-4.85%	-1.21%	-0.26%
-4.83%	21.89%	0.41%
-4.81%	-2.91%	-1.54%
-4.79%	0.71%	-0.41%
-4.76%	-3.80%	1.44%
-4.75%	0.77%	0.41%
-4.73%	-2.32%	-0.77%
-4.73%	-0.11%	-0.26%
-4.68%	-1.91%	0.41%
-4.68%	2.54%	0.19%
-4.61%	1.48%	0.73%
-4.59%	3.03%	-0.54%
-4.54%	-0.30%	0.31%
-4.52%	-0.25%	1.44%
-4.50%	-5.01%	-0.54%
-4.43%	18.37%	1.44%
-4.42%	-0.90%	-0.30%



-4.33%	3.01%	-0.20%
-4.31%	4.46%	-0.26%
-4.30%	0.73%	-0.54%
-4.25%	-0.64%	0.31%
-4.22%	-4.66%	-0.41%
-4.22%	-7.87%	-1.54%
-4.21%	-0.07%	-0.54%
-4.21%	-1.03%	0.41%
-4.19%	-2.80%	-0.54%
-4.19%	0.55%	0.73%
-4.16%	5.56%	-0.20%
-4.16%	3.50%	-0.26%
-4.14%	0.36%	0.41%
-4.14%	2.59%	-1.32%
-4.13%	-2.90%	0.41%
-4.12%	-3.63%	0.41%
-4.11%	-3.13%	-1.54%
-4.10%	2.07%	0.41%
-4.10%	1.52%	-1.54%
-4.09%	4.28%	-2.00%
-4.08%	-0.88%	0.41%
-4.06%	2.40%	0.41%
-4.05%	-2.88%	-0.30%
-4.05%	3.60%	-2.00%
-4.03%	-2.42%	0.19%
-4.03%	1.27%	0.73%
-4.00%	-4.82%	0.73%
-3.99%	2.81%	-0.20%
-3.99%	-3.81%	-0.41%
-3.98%	-3.54%	0.19%
-3.97%	-0.22%	-1.54%
-3.94%	2.27%	0.19%
-3.93%	-3.06%	-1.54%
-3.93%	-0.28%	0.31%
-3.93%	-3.39%	-2.00%
-3.86%	2.20%	0.73%
-3.85%	1.04%	-0.54%
-3.84%	2.79%	-0.41%
-3.83%	2.79%	-1.54%
-3.83%	-2.17%	0.41%
-3.82%	-0.81%	-0.77%
-3.82%	-9.26%	-1.32%
-3.81%	-0.32%	0.73%

-3.80%	4.94%	-0.20%
-3.79%	-1.32%	-0.20%
-3.78%	-1.01%	0.73%
-3.78%	1.21%	-0.54%
-3.78%	4.19%	-0.30%
-3.77%	-1.22%	0.19%
-3.76%	-0.43%	-0.20%
-3.76%	1.90%	0.41%
-3.75%	1.38%	0.19%
-3.74%	-2.62%	0.31%
-3.73%	-7.71%	-2.03%
-3.71%	-1.17%	0.73%
-3.71%	18.72%	-2.00%
-3.71%	0.24%	0.73%
-3.71%	-0.46%	-1.54%
-3.66%	1.32%	0.19%
-3.65%	0.69%	-0.54%
-3.65%	2.08%	0.19%
-3.64%	1.26%	-1.54%
-3.64%	0.50%	-0.26%
-3.63%	4.39%	-0.30%
-3.62%	-0.56%	-0.20%
-3.61%	0.86%	0.19%
-3.58%	-0.72%	-0.30%
-3.58%	0.89%	-0.20%
-3.57%	3.76%	0.73%
-3.57%	0.09%	-0.30%
-3.57%	5.80%	-0.77%
-3.56%	0.93%	-1.54%
-3.56%	1.60%	0.19%
-3.55%	-4.59%	-1.32%
-3.53%	-24.34%	1.44%
-3.52%	-2.50%	0.73%
-3.52%	-0.50%	-1.32%
-3.51%	2.36%	-0.20%
-3.50%	1.49%	0.73%
-3.50%	-0.75%	-0.41%
-3.49%	5.36%	0.41%
-3.49%	-0.50%	0.41%
-3.47%	3.40%	1.44%
-3.46%	-6.24%	-0.77%
-3.46%	-2.21%	-2.03%
-3.45%	1.38%	-2.00%



-3.45%	-0.43%	0.31%
-3.44%	1.04%	0.73%
-3.44%	0.98%	-0.30%
-3.44%	-0.83%	-0.20%
-3.43%	1.55%	0.73%
-3.42%	-5.21%	-0.54%
-3.41%	-1.06%	0.41%
-3.40%	-0.74%	-2.03%
-3.40%	-1.27%	-0.20%
-3.37%	2.62%	-0.77%
-3.37%	-1.44%	0.73%
-3.36%	0.08%	0.73%
-3.34%	6.98%	0.73%
-3.33%	0.87%	-0.20%
-3.30%	3.47%	0.41%
-3.30%	1.52%	-2.00%
-3.29%	0.08%	-0.20%
-3.28%	-0.46%	-0.30%
-3.27%	-1.49%	-0.30%
-3.26%	0.62%	0.73%
-3.25%	-0.32%	-0.20%
-3.23%	-2.77%	-2.00%
-3.21%	-1.97%	-0.20%
-3.21%	-2.22%	-2.00%
-3.20%	0.76%	1.44%
-3.20%	15.56%	-0.41%
-3.20%	-3.74%	-0.20%
-3.18%	-7.96%	-0.20%
-3.16%	0.64%	-0.20%
-3.16%	-0.33%	-0.20%
-3.14%	-3.07%	-1.32%
-3.14%	-1.37%	-0.20%
-3.12%	-2.30%	-0.77%
-3.10%	1.10%	0.19%
-3.10%	-1.59%	0.19%
-3.10%	2.78%	0.73%
-3.09%	0.50%	-0.77%
-3.09%	-8.19%	0.31%
-3.09%	-0.73%	1.44%
-3.09%	1.22%	-0.77%
-3.09%	-1.87%	-0.77%
-3.08%	-3.58%	1.44%
-3.06%	-0.59%	-2.03%

-3.06%	-3.79%	1.44%
-3.05%	-2.06%	0.19%
-3.05%	-1.49%	-0.41%
-3.03%	2.16%	0.73%
-3.03%	-0.62%	-0.30%
-3.02%	-2.53%	0.41%
-3.02%	-2.23%	-2.00%
-3.00%	-1.55%	-0.20%
-3.00%	-2.72%	-1.32%
-2.97%	3.59%	-0.77%
-2.96%	0.99%	0.73%
-2.93%	-1.12%	-2.03%
-2.92%	-6.83%	-0.20%
-2.91%	-2.23%	0.31%
-2.91%	-0.76%	0.31%
-2.89%	-1.27%	-0.30%
-2.88%	-3.72%	-0.30%
-2.87%	1.09%	-0.30%
-2.85%	-0.02%	-0.77%
-2.85%	7.03%	-1.54%
-2.84%	-11.76%	-2.00%
-2.83%	-4.02%	1.44%
-2.82%	-0.50%	-2.03%
-2.82%	0.15%	-0.30%
-2.81%	-0.48%	0.41%
-2.80%	1.41%	0.19%
-2.77%	-0.44%	-1.32%
-2.76%	-5.25%	-0.26%
-2.76%	-3.34%	-0.30%
-2.75%	-2.85%	0.73%
-2.72%	0.25%	-0.54%
-2.72%	4.08%	1.44%
-2.68%	-2.70%	-2.00%
-2.56%	-9.77%	0.31%
-2.55%	4.06%	-0.30%
-2.54%	-0.25%	0.19%
-2.53%	0.73%	-0.41%
-2.50%	0.87%	-0.30%
-2.50%	-2.93%	-2.00%
-2.49%	0.98%	1.44%
-2.43%	-2.55%	-0.30%
-2.43%	13.90%	1.44%
-2.40%	-3.44%	-0.41%



-2.40%	-4.34%	-2.00%
-2.39%	-8.24%	-2.03%
-2.39%	-3.31%	-0.41%
-2.37%	3.72%	0.73%
-2.36%	0.67%	-0.41%
-2.32%	-5.09%	-0.30%
-2.30%	-3.20%	0.19%
-2.29%	-2.46%	-0.41%
-2.29%	1.39%	-0.20%
-2.27%	-3.05%	-0.77%
-2.25%	-2.60%	0.31%
-2.24%	-4.39%	1.44%
-2.19%	-1.19%	-2.00%
-2.17%	-4.24%	0.19%
-2.16%	2.20%	-0.30%
-2.15%	-0.07%	-2.03%
-2.15%	2.19%	1.44%
-2.14%	0.11%	0.73%
-2.13%	-2.30%	-0.20%
-2.13%	-5.82%	0.19%
-2.09%	-1.66%	0.19%
-2.08%	1.38%	0.41%
-2.07%	-2.99%	0.41%
-2.07%	-0.87%	-0.30%
-2.06%	-5.33%	-0.41%
-2.06%	-11.49%	-1.54%
-2.03%	1.10%	-0.77%
-2.02%	-12.14%	0.31%
-2.00%	4.85%	-1.54%
-1.95%	-1.54%	0.19%
-1.90%	-3.20%	1.44%
-1.90%	3.24%	-2.00%
-1.89%	-3.22%	0.19%
-1.86%	-8.79%	-0.41%
-1.82%	1.31%	-0.54%
-1.78%	5.36%	0.19%
-1.77%	-0.89%	-0.20%
-1.73%	-0.45%	-0.41%
-1.73%	7.65%	0.31%
-1.70%	1.34%	-0.41%
-1.59%	0.77%	-0.20%
-1.56%	-1.41%	-0.77%
-1.55%	-0.55%	0.73%

-1.54%	1.12%	-2.00%
-1.48%	1.70%	1.44%
-1.45%	-0.56%	-0.41%
-1.32%	-1.04%	-1.54%
-1.30%	-4.93%	-2.00%
-1.28%	-0.76%	-0.30%
-1.26%	-24.44%	-2.00%
-1.23%	4.00%	0.19%
-1.22%	-2.14%	-0.30%
-1.21%	-0.29%	-0.77%
-1.21%	-1.83%	0.73%
-1.20%	1.63%	-1.54%
-1.10%	-3.25%	-0.41%
-1.09%	-1.02%	-1.54%
-1.09%	-2.45%	-0.30%
-1.04%	-0.48%	-0.41%
-1.02%	-0.35%	-1.32%
-0.93%	-26.06%	-1.54%
-0.83%	0.86%	-0.41%
-0.80%	-6.28%	-1.54%
-0.78%	-5.30%	-0.54%
-0.74%	21.72%	-1.54%
-0.72%	4.03%	-0.41%
-0.72%	6.90%	-1.54%
-0.65%	-6.49%	1.44%
-0.48%	1.73%	0.31%
-0.39%	1.62%	-0.77%
-0.12%	25.14%	1.44%
-0.10%	4.22%	-0.30%
-0.07%	0.07%	0.19%
0.00%	0.72%	-0.41%
0.00%	-1.56%	-0.41%
0.00%	3.92%	-0.30%
0.00%	-2.23%	0.31%
0.00%	13.25%	0.31%
0.00%	0.69%	-2.00%
0.00%	-15.55%	-2.00%
0.00%	7.20%	-0.54%
0.00%	5.86%	0.80%
0.00%	1.32%	0.31%
0.00%	2.76%	0.31%
0.00%	1.74%	0.31%
0.00%	-0.34%	0.31%



0.00%	2.03%	0.31%
0.00%	-2.96%	0.31%
0.00%	0.71%	0.31%
0.00%	17.45%	0.31%
0.00%	16.00%	0.31%
0.00%	-4.83%	0.31%
0.00%	0.35%	0.31%
0.00%	-11.52%	0.80%
0.00%	12.53%	0.80%
0.00%	-6.82%	0.80%
0.00%	-2.05%	0.80%
0.00%	0.16%	0.80%
0.00%	0.36%	0.80%
0.00%	0.28%	0.80%
0.00%	1.21%	0.80%
0.00%	-0.08%	0.80%
0.00%	-0.69%	0.80%
0.00%	0.57%	0.80%
0.00%	0.62%	0.80%
0.00%	-0.01%	0.80%
0.00%	-1.10%	0.80%
0.00%	7.37%	0.80%
0.00%	2.59%	0.80%
0.00%	8.79%	0.80%
0.00%	7.25%	0.80%
0.00%	-1.57%	0.80%
0.00%	-5.32%	0.80%
0.00%	6.95%	0.80%
0.00%	-1.55%	0.80%
0.00%	1.93%	0.80%
0.00%	0.01%	0.80%
0.00%	4.27%	0.80%
0.00%	-0.04%	0.80%
0.00%	4.28%	0.80%
0.00%	-0.32%	0.80%
0.00%	-9.98%	0.80%
0.00%	1.80%	-0.77%
0.00%	0.55%	-0.77%
0.00%	-1.31%	-0.77%
0.00%	-2.74%	-0.77%
0.00%	-7.60%	-0.77%
0.00%	0.39%	-0.77%
0.00%	-3.30%	-0.77%

0.00%	-0.75%	-0.77%
0.00%	-8.21%	-0.77%
0.00%	1.50%	-0.77%
0.00%	-1.71%	-0.77%
0.00%	-1.26%	-0.77%
0.00%	8.66%	-0.54%
0.00%	-0.06%	-0.54%
0.00%	3.26%	-0.54%
0.00%	0.67%	-0.54%
0.00%	-8.01%	0.41%
0.00%	8.34%	0.41%
0.00%	-1.70%	-2.03%
0.00%	-0.90%	-2.03%
0.00%	-1.21%	-2.03%
0.00%	-2.15%	0.41%
0.01%	7.96%	1.44%
0.03%	10.25%	1.44%
0.12%	-2.26%	-2.00%
0.21%	-0.88%	0.31%
0.26%	-1.04%	0.31%
0.59%	-4.30%	-1.54%
1.06%	0.33%	-2.00%
1.10%	3.60%	1.44%
1.93%	-0.33%	-0.77%
2.17%	0.48%	-0.20%
3.01%	11.25%	1.44%
3.44%	4.76%	-0.26%
3.56%	0.49%	1.44%
3.79%	3.46%	1.44%
5.48%	8.40%	1.44%
7.15%	-0.56%	-0.77%
	-0.64%	0.41%
	9.05%	0.73%
	-2.99%	-2.03%





**Correlation for selling:**

0.02283878

**Correlation for buying:**

0.13813609